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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/814,030	03/31/2004	Jen-Yu Hsu	251210-1570	4960

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EXAMINER

GUPTA, PARUL H

ART UNIT PAPER NUMBER

2627

DATE MAILED: 10/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/814,030	Applicant(s) HSU ET AL.	
	Examiner Parul Gupta	Art Unit 2627	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-13 are pending for examination as interpreted by the examiner. No IDS was considered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

2. Claims 1-13 are rejected under 35 U.S.C. 102(a) as being anticipated by Dekker, US Patent Publication 2003/0133370.

Regarding claims 1, 6, and 10, Dekker discloses in paragraph 0037 a method of braking control in rapid track seeking for an optical drive, comprising the steps of: detecting a deviation ("zero-cross") between a pickup head of the optical drive and a center of an information track on an optical disc in the optical drive; obtaining a tracking error signal according to the deviation ("TE"); calculating a seeking velocity ("jump velocity") of a pickup head of the optical drive and a related braking force according to the tracking error signal of the pickup head; determining a braking force ("brake pulse") for the pickup head according to the seeking velocity by selecting a braking force from a plurality of predetermined braking forces according to the seeking velocity (done based on "braking signal" which is a signal representing a plurality of braking forces); and braking the pickup head with the braking force by applying the braking force according to the seeking velocity to the pickup head (done by "braking signal").

Regarding claim 2, Dekker discloses in paragraph 0037 the method of braking control in rapid track seeking for an optical drive as claimed in claim 1, further comprising: providing a predetermined distance so that the step of obtaining the tracking error signal is not performed until the deviation is no greater than the predetermined distance. The given paragraph explains how checks are performed repeatedly by comparison with control values before beginning the braking process.

Regarding claims 3, 7, and 11, Dekker discloses the method of braking control in rapid track seeking for an optical drive, wherein the tracking error signal is a sine wave signal (paragraph 0021).

Regarding claims 4, 8, and 12, Dekker discloses in paragraph 0037 the method of braking control in rapid track seeking for an optical drive, wherein the optical drive further comprises a coarse actuator (element 10 of figure 1) for providing the braking force.

Regarding claim 5, 9, and 13, Dekker discloses in paragraph 0037 the method of braking control in rapid track seeking for an optical drive as claimed in claim 1, wherein the optical drive further comprises an optical sensor (element 4 of figure 1) for detecting the deviation between the pickup head and a center of an information track on an optical disc in the optical drive and obtaining the tracking error signal.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ohnuki, US Patent 4,805,163 discloses a similar method of

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tracking control. Takamine, US Patent 5,577,009 discloses a similar method of braking based on the tracking error signal and seeking.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Parul Gupta whose telephone number is 571-272-5260. The examiner can normally be reached on Monday through Thursday, from 8:30 AM to 7 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrea Wellington can be reached on 571-272-4483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PHG
10/12/06


ANDREA WELLINGTON
SUPERVISORY PATENT EXAMINER